

Sample Math Enduring Learnings (a progression around proportional relationships)

Enduring Learning: Geometry Example

<i>Enduring Understanding</i>	<i>Demonstrators</i>	<i>Related Standards</i>	Sources of Evidence: What is available or needs to be developed?
Students use the 8 Standards for Mathematical Practice to develop their understanding of proportional relationships between figures. (Understanding here is defined as students' ability to access and perform the content through the 8 Practice Standards. See pg. 8 of standards document for further detail.)			
	Understand similarity in terms of similarity transformations in the Euclidean and Coordinate planes.	G.SRT.A.1-3	
	Prove theorems and solve problems involving similarity.	G.SRT.B.4,5 G.C.A.1-3 G.C.B.5	
	Define trigonometric ratios and solve problems involving right triangles.	G.SRT.C.6-8	
	This is critical in students' journey to understand transformations and use them to describe and analyze relationships between and within figures in the Euclidean and Coordinate planes.		

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Enduring Learning: 7th Grade Example

<i>Enduring Understanding</i>	<i>Demonstrators</i>	<i>Related Standards</i>	Sources of Evidence: What is available or needs to be developed?
Students use the 8 Math Practices to develop understanding of proportional relationships. (Understanding here is defined as students' ability to access and perform the content through the 8 Practice Standards. See pg. 8 of standards document for further detail.)			
	Use understanding to solve single and multi-step problems from the real world.	7.RPA.1 7.PRA.2 7.EE 7.G.A.1	
	Use understanding to solve wide variety of percent problems.	7.RPA.3 7.EE	
	Use understanding to solve problems about scale drawings.	7.EE 7.G.A	
	Use understanding to graph proportional relationships, understand unit rate as an informal measure of slope.	7.RP.A.2	
	Use understanding to distinguish proportional relationships from others.	7.RP.A.2	
	This is critical in students' journey to understand equations and use them to describe numbers and analyze relationships and to understand transformations and use them to describe and analyze relationships between and within figures in the Euclidean and Coordinate planes.		

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Enduring Learning: 3rd Grade Example

<i>Enduring Understanding</i>	<i>Indicators</i>	<i>Related Standards</i>	Sources of Evidence: What is available or needs to be developed?
Students use the 8 Standards for Mathematical Practice to develop their understanding of the meanings of multiplication and division. (Understanding here is defined as students' ability to access and perform the content through the 8 Practice Standards. See pg. 8 of standards document for further detail.)	Use properties of operations to calculate products of whole numbers using increasingly sophisticated strategies.	3.NBT.A.3 3.OA.C.7	
	Understand concepts of area and use decomposition to relate area to multiplication.	3.MD.C.5-7	
	Use properties of operations to solve division problems involving single-digit factors using increasingly sophisticated strategies.	3.OA.C.7	
	Use understanding of relationship between multiplication and division.	3.OA.B.5, 6	
	Represent and solve problems involving multiplication and division.	3.OA.A.1-4 3.OA.D.8, 9	
	Use properties of operations to calculate products of whole numbers using increasingly sophisticated strategies.	3.NBT.A.3 3.OA.C.7	
	This is critical in students' journey to understand the properties of the four basic operations and use them to manipulate quantities in the real and complex number systems as well as in algebraic manipulations.		